

## **STCG SUBCON SUBGROUP MEETING MINUTES**

February 26, 1997

### **Smart Sampling Process for Hanford Site Applications** (Mike Schlender)

Right now this is just a concept for discussion at Hanford, not a full-fledged proposal. The benefits of the Smart Sampling Process are in the reduction of baseline costs for characterization for site close-out. The process could help determine how to optimize the sampling program to reduce time and costs by answering the following questions: How do you determine how many samples you need to take? Where is the contamination likely to be? What is the probability of leaving something bad behind? The software will produce maps showing where the risk levels are.

The process couples geostatistical analysis with economic decision analysis. It represents the risk of leaving waste contaminants behind and communicates the uncertainty in sampling results to facilitate decision-making. The premise is that if the value of the sample is less than the cost of the sample, you should not collect it.

There will be a technology exchange meeting next week for the developers (Sandia National Laboratories) to describe their experience with the process in Ohio and EPA's acceptance of it. At Hanford, we might want to do a pilot demonstration at a RCRA site and another at a CERCLA site, perhaps in the 100 or 200 Areas. It was suggested that the process may be more promising for the 200 Areas, perhaps for vadose zone characterization. TWRS representatives should be invited to the technology exchange meeting.

### **In Situ Redox Manipulation Peer Review** (group discussion)

Dennis Faulk stated that we are trying to get from the test phase to actual deployment. We need a definitive answer on whether the technology will work as hoped. However, if we think it will be a final remedy, we should go out for a 30-day public comment period soon. Paul Danielson noted that there is only one year of funding left, yet the technology will affect the groundwater for 10 years. We need to continue sampling into the future, and we need funds to do this. Arlene Tortoso stated that the earliest date that drilling can start is the end of March.

### **EM-50's Technology Deployment Initiative** (Dave Biancosino)

EM-50/HQ has set aside a \$50 million fund for technology deployment which is being held at DOE/Idaho. Dave is not sure if the fund is for one year or two. It is not for demonstration of new technologies, or to fund operations. It is to help DOE reduce the mortgage by deploying new technologies. A revolving fund will be created that will allow sites to use their cost savings for more deployments. The objective is multiple site deployments. Within 24 months, a site must

deploy the technology and show that mortgage reduction has occurred. In essence, the intent is to accelerate cleanup.

The following Subcon proposal ideas were suggested:

- canyon facility characterization
- application of proven technologies from the 105-C Reactor Interim Safe Storage Project to put the other reactors into interim safe storage
- advanced characterization of burial grounds
- electrokinetics in combination with pump and treat
- barriers.

Proposals must come from Site users, not developers. The Management Council and the Subgroups should both be invited to review the Hanford proposals. There will be one main proposal from Hanford consisting of multiple sub-proposals.

#### SCFA Mid-Year Review (Dave Biancosino)

SCFA will be holding a mid-year program review on March 18-19 in Atlanta. Dave and Fred Serier will attend, and perhaps Rico Cruz will attend for the Community Leaders Network. The meeting organizers want an EM-50 person and a user representative from each site.

#### Next Meeting

The next Subcon Subgroup meeting will be held on March 26, 1997 in the Bechtel Building. The meeting time, room location, and detailed agenda will be distributed about a week prior to the meeting. Suggested agenda items include:

- Redox Manipulation Test Plan (Dennis Faulk)
- SCFA Mid-Year Review (Fred Serier)
- 300-Area Burial Ground GPR Technology Update (Kim Koegler)
- Potential TDI Proposals (Kim Koegler)
- Technology Needs Status (Kim Koegler)

Action Item (Fred Serier)

Find out if a letter was sent to SCFA inviting them here to meet with the Subgroup and tour the Hanford Site. If so, was it signed by Lloyd Piper? Wayne Martin prepared a draft letter several months ago. Fred will try to find out what happened to it.

Attendees

Gary Ballew (Pacific Rim Enterprise Center)

Dave Biancosino (DOE)

Paul Danielson (Nez Perce Tribe)

Linda Fassbender (PNNL)

Dennis Faulk (EPA)

Kim Koegler (BHI)

Fenggang Ma (Ecology)

Mike Schlender (PNNL)

Fred Serier (DOE)

Arlene Tortoso (DOE)